

ABSTRACT

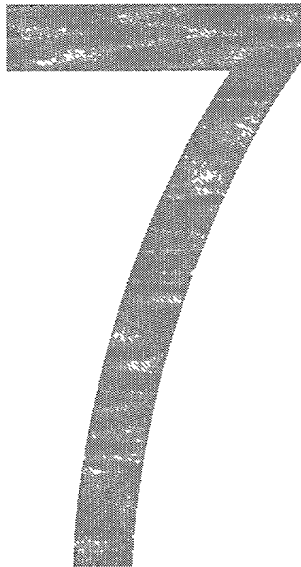
A cellular automaton cache memory architecture. On a general-purpose processor, a cache memory is provided to store instructions and data for use by the processor. The cache memory is further capable of storing data

- 5 representing a first state of a cellular automaton at a first time step, where the data is organized in cells. A cellular automaton update unit provides data from selected cells of the cellular automaton to an update engine. The update engine updates at least some of the selected cells according to an update rule and a state of any associated neighborhood cells to provide a state of the cellular
- 10 automaton at a second time step.

UNITED STATES PATENT AND TRADEMARK OFFICE
DOCUMENT CLASSIFICATION BARCODE SHEET



Drawings



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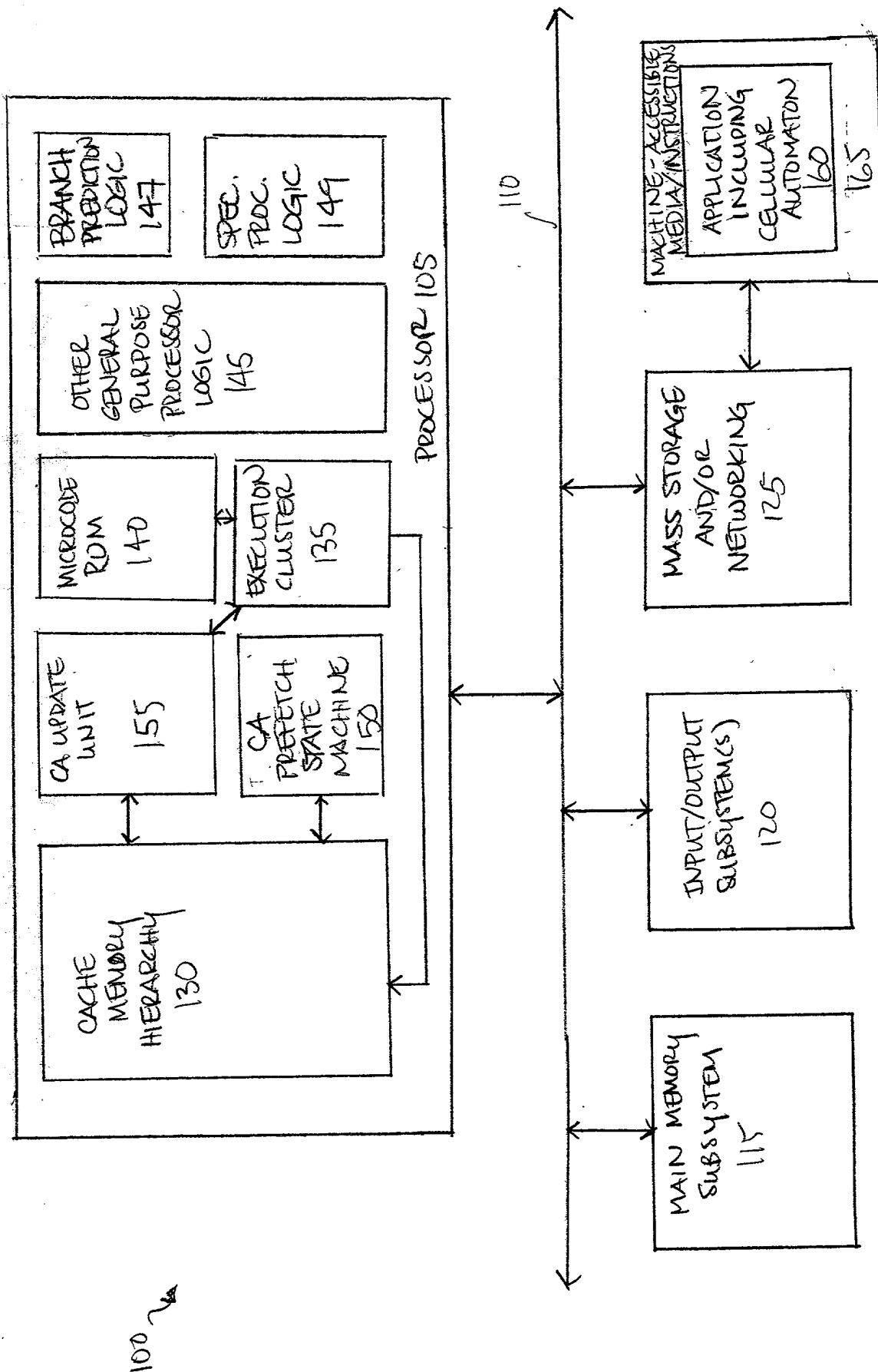


Figure 1

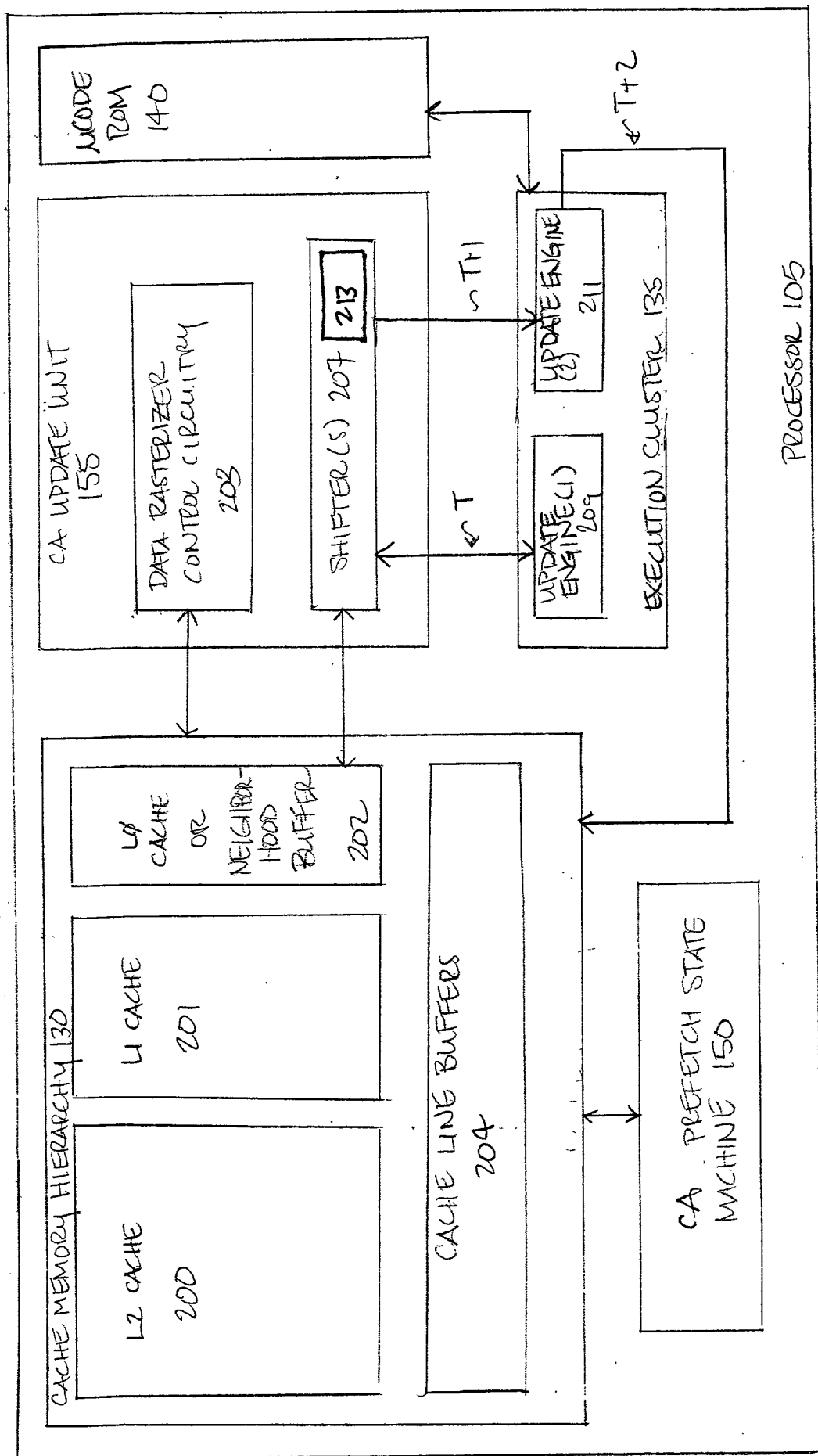


FIGURE 2

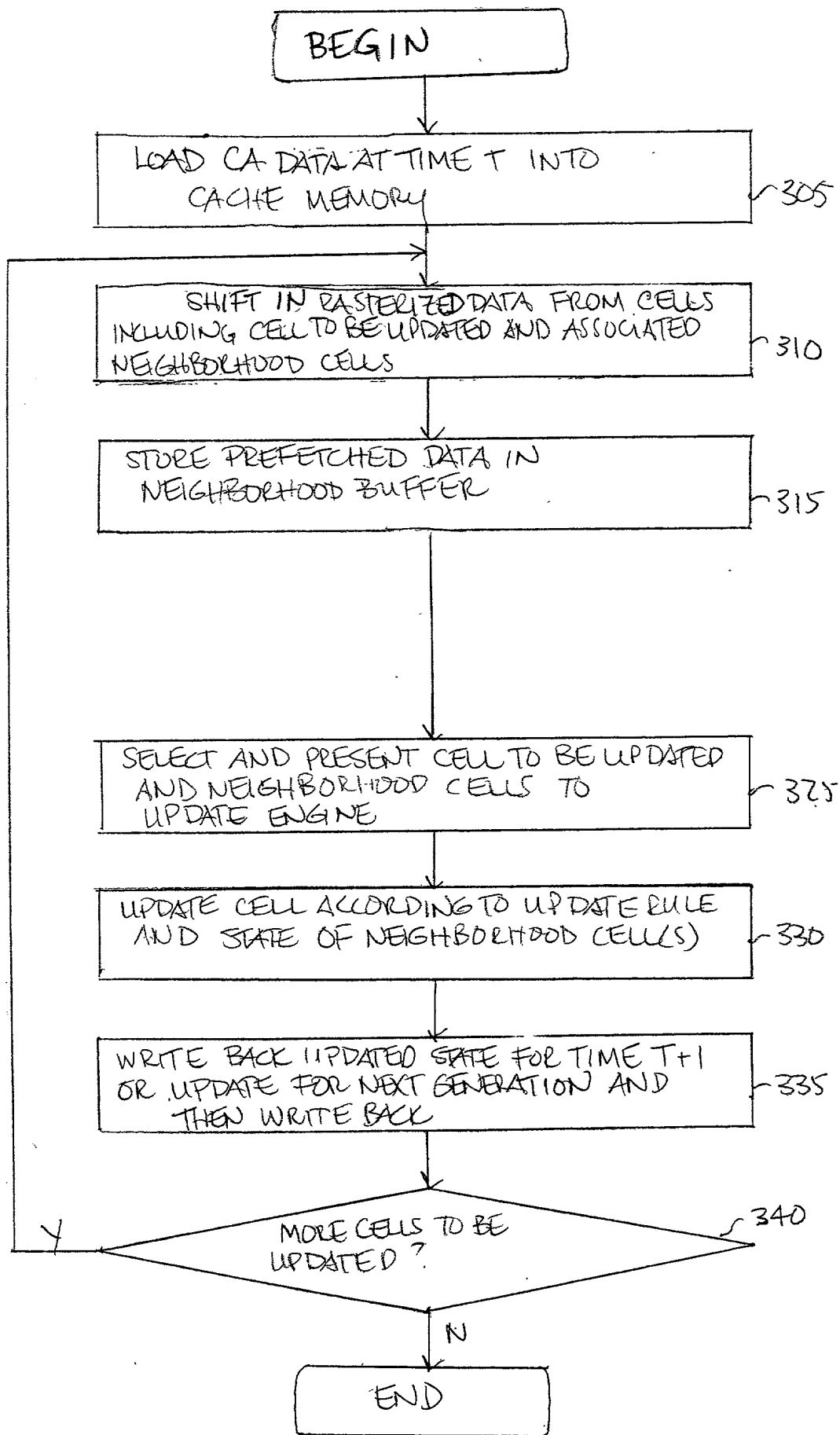


FIGURE 3

8,0



FIGURE 4

